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**DIVISION OF ENGINEERING SERVICES**  
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May 13, 2005

02-Sis-5-R64.5/R71.5, R83.0/R93.5  
02-3815U4  
ACIMG-ACSTPE-005-9(162)E

Addendum No. 1

Dear Contractor:

This addendum is being issued to the contract for construction on State highway in SISKIYOU COUNTY NEAR YREKA FROM JULIEN CREEK BRIDGE TO WALTERS ROAD OVER-CROSSING AND FROM 0.7 KM NORTH OF SHASTA RIVER BRIDGE NO. 02-148 TO KLAMATH RIVER ROAD UNDERCROSSING.

Submit bids for this work with the understanding and full consideration of this addendum. The revisions declared in this addendum are an essential part of the contract.

Bids for this work will be opened on May 24, 2005.

This addendum is being issued to revise the Notice to Contractors and Special Provisions, the Proposal and Contract and the Federal Minimum Wages with Modification Number 20 dated 4-29-05.

In the Special Provisions, Section 10-1.54, "PAVEMENT MARKERS," is added after Section 10-1.53, "TWO-COMPONENT PAINT TRAFFIC STRIPE," as attached.

In the Proposal and Contract, the Engineer's Estimate, Item 2 is revised as attached.

To Proposal and Contract book holders:

Replace Page 3 of the Engineer's Estimate in the Proposal with the attached revised Page 3 of the Engineer's Estimate. The revised Engineer's Estimate is to be used in the bid.

Indicate receipt of this addendum by filling in the number of this addendum in the space provided on the signature page of the proposal.

Submit bids in the Proposal and Contract book you now possess. Holders who have already mailed their book will be contacted to arrange for the return of their book.

Inform subcontractors and suppliers as necessary.

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This office is sending this addendum by confirmed facsimile to all book holders to ensure that each receives it. A copy of this addendum and the modified wage rates are available for the contractor's use on the Internet Site:

**[http://www.dot.ca.gov/hq/esc/oe/weekly\\_ads/addendum\\_page.html](http://www.dot.ca.gov/hq/esc/oe/weekly_ads/addendum_page.html)**

If you are not a Proposal and Contract book holder, but request a book to bid on this project, you must comply with the requirements of this letter before submitting your bid.

Sincerely,

ORIGINAL SIGNED BY

REBECCA D. HARNAGEL, Chief  
Office of Plans, Specifications & Estimates  
Office Engineer

Attachments

#### 10-1.54 PAVEMENT MARKERS

Pavement markers shall be placed in conformance with the provisions in Section 85, "Pavement Markers," of the Standard Specifications and these special provisions.

Attention is directed to "Traffic Control System For Lane Closure" of these special provisions regarding the use of moving lane closures during placement of pavement markers with bituminous adhesive.

The Contractor shall furnish the Engineer certificates of compliance for the pavement markers in conformance with the provisions in Section 6-1.07, "Certificates of Compliance," of the Standard Specifications.

Retroreflective pavement markers shall be marked as abrasion resistant on the body of the markers.

Retroreflective pavement markers placed in pavement recesses shall be cemented with a flexible, polymer-modified, hot-melt asphaltic adhesive conforming to the following requirements:

Specification	ASTM Designation	Requirement
Penetration, mm, 100 g, 5 seconds, 25°C	D 5	3.0 Maximum
Softening Point, °C	D 36	93 Minimum
Brookfield Thermosel Viscosity, Pa·s, No. 27 Spindle, 20 RPM, 191°C	D 4402	2.5 - 6
Ductility, cm, 5 cm/min, 25°C	D 113	15 Minimum
Ductility, cm, 1 cm/min, 4°C	D 113	5 Minimum
Flexibility	D 3111 <sup>1, 2, 3, 4</sup>	No breaks or cracks
Notes: 1. Modify ASTM Designation: D 3111, Paragraph 6, to "The test apparatus consists of a mandrel 25.4 mm in diameter by 75 to 150 mm in length, supported at each end." 2. Modify ASTM Designation: D 3111, Paragraph 7, to "The test specimen dimensions are 25.4 mm wide, 152 mm long, and 3.18 mm thick." 3. Modify ASTM Designation: D 3111, Paragraph 8, to "Condition the test specimens and apparatus for 4 hours at -7°C before testing." 4. Modify ASTM Designation: D 3111, Paragraph 10.5, to "Bend the test specimens 90° over the mandrel at a uniform rate in 10 seconds while maintaining intimate contact with the mandrel."		

Testing of adhesive bond strength will be performed on sandblasted concrete brick surface in conformance with the requirements in California Test 669 and these special provisions. The concrete brick surface will be sandblasted in conformance with the requirements in California Test 423. The test plugs of 51 mm diameter will be conditioned at 105°C for a minimum of 2 hours before bonding to the sandblasted concrete surface. The adhesive sample will be heated to the application temperature as recommended by the manufacturer and a sample of 75 mm diameter in area will be poured onto the sandblasted concrete surface. The heated plug will immediately be pressed onto the puddle of hot adhesive to squeeze out excess adhesive. The excess adhesive extruding from under the plug will be removed. The assembly will be allowed to cure for 24 hours at 23°C ± 2°C and then be tested to bond failure at a crosshead speed of 5.1 mm per minute. The reported peak load and the bond strength value will be the average of 3 tests, respectively. The same bond strength test will be performed on retroreflective pavement markers. Instead of placing the heated adhesive sample on the sandblasted concrete surface, it will be placed on the bottom of the pavement markers.

Minimum bond strength to the sandblasted concrete brick surface shall be 0.69-MPa and minimum bond strength to retroreflective pavement markers shall be 0.82-MPa.

Adhesive placed in pavement recesses shall be applied as recommended by the manufacturer.

Retroreflective pavement markers placed in pavement recesses will be measured and paid for as pavement marker (retroreflective-recessed).

**ENGINEER'S ESTIMATE**  
**02-3815U4**

Item No.	Item Code	Item Description	Unit of Measure	Estimated Quantity	Unit Price	Item Total
1	070012	PROGRESS SCHEDULE (CRITICAL PATH METHOD)	LS	LUMP SUM	LUMP SUM	
2	070018	TIME-RELATED OVERHEAD	WDAY	125		
3	074019	PREPARE STORM WATER POLLUTION PREVENTION PLAN	LS	LUMP SUM	LUMP SUM	
4	074020	WATER POLLUTION CONTROL	LS	LUMP SUM	LUMP SUM	
5	074028	TEMPORARY FIBER ROLL	M	510		
6	074029	TEMPORARY SILT FENCE	M	650		
7	074030	TEMPORARY STRAW BALE	EA	6		
8	074032	TEMPORARY CONCRETE WASHOUT FACILITY	EA	3		
9 (S)	120090	CONSTRUCTION AREA SIGNS	LS	LUMP SUM	LUMP SUM	
10 (S)	120100	TRAFFIC CONTROL SYSTEM	LS	LUMP SUM	LUMP SUM	
11 (S)	120151	TEMPORARY TRAFFIC STRIPE (TAPE)	M	4570		
12 (S)	120152	TEMPORARY PAVEMENT MARKING (TAPE)	M2	24		
13 (S)	120165	CHANNELIZER (SURFACE MOUNTED)	EA	42		
14 (S)	128650	PORTABLE CHANGEABLE MESSAGE SIGN	EA	2		
15 (S)	129000	TEMPORARY RAILING (TYPE K)	M	2650		
16 (S)	129100	TEMPORARY CRASH CUSHION MODULE	EA	42		
17	150206	ABANDON CULVERT	EA	2		
18	150607	REMOVE FENCE (TYPE WM)	M	9230		
19	150662	REMOVE METAL BEAM GUARD RAILING	M	62		
20	150701	REMOVE YELLOW PAINTED TRAFFIC STRIPE	M	250		